

Communications & Power Industries CCTWT

The VTX-5786C pulsed-coupled cavity TWT covers 10.8 GHz to 11.8 GHz with 10 kW peak output power, 2.0% duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 48 dB gain.

Custom configurations are also available. These variations in the performance and configuration include: cooling method (affects average power level), mechanical configuration, electrical and RF connections, & multiple stage depressed collector.

Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800.

Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-25	-22	kV
Cathode Current	---	4.5	a
Heater Voltage	9	11	V
Heater Current	---	4	A
Collector Voltage	14	17	kV
Grid Bias Voltage	-400	-300	V
Grid Pulse Voltage	300	450	v
RF Drive Power	---	0.16	W
Pulse Width	---	50	µsec
Duty Cycle	---	2.0	%
Cooling Flow Rate	2.0	---	lbm/min
Pressure Drop	---	3	In H ² O
Weight	---	20	lbs
Dimensions	---	5 X5X 20	inches

FEATURES:

- 10.8 GHz to 11.8 GHz
- 10 kW Peak output power
- 2.0% Duty cycle
- Non-intercepting grid pulsed
- 48 dB gain
- Single stage depressed collector
- Forced air cooled
- PPM focused
- Coaxial input, WR 90 waveguide output

BENEFITS:

- Efficient
- Bandwidth
- Over 40 years of technical expertise

APPLICATIONS:

- Ground radars



**Microwave Power
Products Division**
3120 Hansen Way
Palo Alto, California
USA 94303

tel +1 650-846-2800
fax +1 650-856-0705
email MPPMarketing@cpii.com
web www.cpii.com/MPP

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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